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10/528673

RAW SEQUENCE LISTING

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Application Serial Number: 10/528,673
Source: PCT/10
Date Processed by STIC: 4/1/05

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,673

DATE: 04/01/2005

TIME: 10:52:31

Input Set : A:\0185656.ST25.txt

Output Set: N:\CRF4\04012005\J528673.raw

3 <110> APPLICANT: Hoshino, Tatsuo
 4 Shinjoh, Masako
 6 <120> TITLE OF INVENTION: Process For Producing L-Abscorbic Acid
 8 <130> FILE REFERENCE: C038435/0185656
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/528,673
C--> 10 <141> CURRENT FILING DATE: 2005-03-23
 10 <160> NUMBER OF SEQ ID NOS: 2
 12 <170> SOFTWARE: PatentIn version 3.3
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 1740
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Gluconobacter oxydans
 19 <400> SEQUENCE: 1
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 24 tggattaaact acggccgcaaa ccaagaaaac tatcgccact cgcccccgtac ccagatcaact 180
 26 gccgacaacg ttggtcagtt gcaactggtc tggggcccgcg ggatggaggc gggggccgtaa 240
 28 caggtcacgc cgatgatcca tggatggcgatgg atgtatctgg caaaccgggg tgatgtgatc 300
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 38 attgtcgcca atggcgatcat cgtcgccgggt tccacctgcc aatattcgcc ctatggatgc 600
 40 ttatctcggtt ggcacgattc cgccgacgggt gaggagctgt ggcgcaacca ctatcccg 660
 42 cagccggcg aagagggtga cgagacttgg ggcaatgatt tcgaggccgc ctggatgacc 720
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 48 aacacccgct ttgcgggtcg tcccgacacg ggcgagattt tctggcgatca ccagaccctg 900
 50 cccgcgacaca actggggacca agaatgcacg ttgcgagatga tggcgcccaa cgtcgatgtg 960
 52 caacccctcggtt ccgagatggg gggctctgcgc gccatcaacc ccaatgcggc gacggggcgag 1020
 54 cgcctgtgc tgacgggtgc gccttgcacgg accggcacga tggatcgatcg 1080
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 79 <210> SEQ ID NO: 2

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80 <211> LENGTH: 579
81 <212> TYPE: PRT
82 <213> ORGANISM: Gluconobacter oxydans
84 <400> SEQUENCE: 2
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90 Thr Ala Pro Ala Ala Phe Ala Gln Val Thr Pro Ile Thr Asp Glu Leu
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94 Leu Ala Asn Pro Pro Ala Gly Glu Trp Ile Asn Tyr Gly Arg Asn Gln
95 35 40 45
98 Glu Asn Tyr Arg His Ser Pro Leu Thr Gln Ile Thr Ala Asp Asn Val
99 50 55 60
102 Gly Gln Leu Gln Leu Val Trp Ala Arg Gly Met Glu Ala Gly Ala Val
103 65 70 75 80
106 Gln Val Thr Pro Met Ile His Asp Gly Val Met Tyr Leu Ala Asn Pro
107 85 90 95
110 Gly Asp Val Ile Gln Ala Leu Asp Ala Gln Thr Gly Asp Leu Ile Trp
111 100 105 110
114 Glu His Arg Arg Gln Leu Pro Ala Val Ala Thr Leu Asn Ala Gln Gly
115 115 120 125
118 Asp Arg Lys Arg Gly Val Ala Leu Tyr Gly Thr Ser Leu Tyr Phe Ser
119 130 135 140
122 Ser Trp Asp Asn His Leu Ile Ala Leu Asp Met Glu Thr Gly Gln Val
123 145 150 155 160
126 Val Phe Asp Val Glu Arg Gly Ser Gly Glu Asp Gly Leu Thr Ser Asn
127 165 170 175
130 Thr Thr Gly Pro Ile Val Ala Asn Gly Val Ile Val Ala Gly Ser Thr
131 180 185 190
134 Cys Gln Tyr Ser Pro Tyr Gly Cys Phe Ile Ser Gly His Asp Ser Ala
135 195 200 205
138 Thr Gly Glu Glu Leu Trp Arg Asn His Phe Ile Pro Gln Pro Gly Glu
139 210 215 220
142 Glu Gly Asp Glu Thr Trp Gly Asn Asp Phe Glu Ala Arg Trp Met Thr
143 225 230 235 240
146 Gly Val Trp Gly Gln Ile Thr Tyr Asp Pro Val Thr Asn Leu Val Phe
147 245 250 255
150 Tyr Gly Ser Thr Gly Val Gly Pro Ala Ser Glu Thr Gln Arg Gly Thr
151 260 265 270
154 Pro Gly Gly Thr Leu Tyr Gly Thr Asn Thr Arg Phe Ala Val Arg Pro
155 275 280 285
158 Asp Thr Gly Glu Ile Val Trp Arg His Gln Thr Leu Pro Arg Asp Asn
159 290 295 300
162 Trp Asp Gln Glu Cys Thr Phe Glu Met Met Val Ala Asn Val Asp Val
163 305 310 315 320
166 Gln Pro Ser Ala Glu Met Glu Gly Leu Arg Ala Ile Asn Pro Asn Ala
167 325 330 335
170 Ala Thr Gly Glu Arg Arg Val Leu Thr Gly Ala Pro Cys Lys Thr Gly
171 340 345 350
174 Thr Met Trp Ser Phe Asp Ala Ala Ser Gly Glu Phe Leu Trp Ala Arg

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175 355 360 365
178 Asp Thr Asn Tyr Thr Asn Met Ile Ala Ser Ile Asp Glu Thr Gly Leu
179 370 375 380
182 Val Thr Val Asn Glu Asp Ala Val Leu Lys Glu Leu Asp Val Glu Tyr
183 385 390 395 400
186 Asp Val Cys Pro Thr Phe Leu Gly Gly Arg Asp Trp Ser Ser Ala Ala
187 405 410 415
190 Leu Asn Pro Asp Thr Gly Ile Tyr Phe Leu Pro Leu Asn Asn Ala Cys
191 420 425 430
194 Tyr Asp Ile Met Ala Val Asp Gln Glu Phe Ser Ala Leu Asp Val Tyr
195 435 440 445
198 Asn Thr Ser Ala Thr Ala Lys Leu Ala Pro Gly Phe Glu Asn Met Gly
199 450 455 460
202 Arg Ile Asp Ala Ile Asp Ile Ser Thr Gly Arg Thr Leu Trp Ser Ala
203 465 470 475 480
206 Glu Arg Pro Ala Ala Asn Tyr Ser Pro Val Leu Ser Thr Ala Gly Gly
207 485 490 495
210 Val Val Phe Asn Gly Gly Thr Asp Arg Tyr Phe Arg Ala Leu Ser Gln
211 500 505 510
214 Glu Thr Gly Glu Thr Leu Trp Gln Ala Arg Leu Ala Thr Val Ala Thr
215 515 520 525
218 Gly Gln Ala Ile Ser Tyr Glu Leu Asp Gly Val Gln Tyr Ile Ala Ile
219 530 535 540
222 Gly Ala Gly Gly Leu Thr Tyr Gly Thr Gln Leu Asn Ala Pro Leu Ala
223 545 550 555 560
226 Glu Ala Ile Asp Ser Thr Ser Val Gly Asn Ala Ile Tyr Val Phe Ala
227 565 570 575
230 Leu Pro Gln

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date